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SEMICONDUCTOR DEVICE (54) PRODUCTION OF

(57) Abstract

a low-pressure CVD method using a silicon oxide film that is formed by single crystal semiconductor layer on performance by forming a true non-PURPOSE: To obtain a high at a specific low temperature. disilane or trisilane and crystalizing it

on a glass 50 that is inexpensive such film is formed as a blocking layer 51 CONSTITUTION: A silicon oxide

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as quartz glass, etc., and can disilane or trisilane is supplied most 700°C, by using a high withstand the heat treatment of at frequency sputtering method. A

atmosphere of non-oxide for 12 to 70 crystalization temerature. Then, after formed, it is entirely annealed in an a slicon film in an amorphous state is that is 100-200°C lower than the pressure vapor method at 450-550°C through for film formation by a low

right side of the glass 50 and an area area 22 for a PTHT is formed on the is subjected to photoetching, and an without grain boundary. The film 52 obtaining higher carrier mobility to higher-order state, thereby changed from an amorphous structure of 450-700°C, and a silicon film 52 is

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hours at an intermediate temperature

insulation film 54. the silicon oxide film as a gate and 56 are formed thereon by using respectively, then gate electrodes 55

13 on the left side thereof,

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